

APPENDIX A

CLAIM AMENDMENTS UNDER 37 CFR §1.121(c)(1)(ii)

Claims 1 - 7 have been rewritten as follows:

1. (Amended) A [propellant composition made from a lacquer, said] lacquer composition useful as a propellant, comprising:

- (a) from about 15 to about 70 wt% of an organic solvent;
- (b) from about 0.1 to about 2.5 wt% of a stabilizer;
- (c) optionally, from about 0% to about 40 wt% of an energetic plasticizer;
- (d) optionally, from about 0 to about 10 wt% of a nonenergetic plasticizer;
- (e) optionally, from about 0 to about 10 wt% water;
- (f) optionally, from about 0 to about 15 wt% of additional additives; [and]

balance being nitrocellulose; all weight percents based on the total weight of said composition, and wherein said lacquer composition has a viscosity of less than 10 million centipoise when processed[.]; and

wherein said lacquer composition is processed into perforated propellant grains.

2. (amended) The [propellant] lacquer composition of claim 1, wherein said organic solvent is selected from the group consisting of ethyl acetate, ether, acetone, and combinations thereof.

3. (amended) The [propellant] lacquer composition of claim 1, wherein said stabilizer is selected from the group consisting of diphenylamine, ethyl centralite, diethyldiphenylurea, 2-nitrodiphenylamine, N-nitrosodiphenylamine, and combinations thereof.

4. (amended) The [propellant] lacquer composition of claim 1, wherein said optional energetic plasticizer is selected from the group consisting of nitroglycerin, ethylene glycol esters, methylene glycols, glycol esters, bis(2,2-dinitropropyl)formal acetal ,and combinations thereof.

5. (amended) The [propellant] lacquer composition of claim 1, wherein said optional nonenergetic plasticizer is selected from the group consisting of dibutylphthalate, adipate esters, and combinations thereof.

6. (amended) The [propellant] lacquer composition of claim 1, wherein said optional additional additives are selected from the group consisting of lubricants; coolants; barrel wear additives; flash suppressants; decoppering agents; energetic solids, and combinations thereof.

7. (amended) A [propellant] lacquer composition useful as a propellant, [made from a lacquer,] said lacquer composition consisting essentially of:

- (a) from about 30 to about 65 wt% of an organic solvent selected from the group consisting of ethyl acetate, ether, acetone, and combinations thereof;
- (b) from about 0.25 to about 1.5 wt% of a stabilizer selected from the group consisting of diphenylamine, ethyl centralite, diethyldiphenylurea, 2-nitrodiphenylamine, N-nitrosodiphenylamine, and combinations thereof;
- (c) optionally, from about 5% to about 25 wt% of nitroglycerin as an energetic plasticizer;
- (d) optionally, from about 0 to about 3 wt% of a nonenergetic plasticizer selected from the group consisting of dibutylphthalate, adipate esters, and combinations thereof;
- (e) optionally, from about from about 0 to about 4 wt% water;
- (f) optionally, from about 0 to about 15 wt% of additional additives selected from the group consisting of lubricants; coolants; barrel wear additives; flash suppressants; decoppering agents; energetic solids, and combinations thereof; [and]

balance being nitrocellulose; and

wherein all weight percents are based on the total weight of said composition, and wherein said lacquer composition has a viscosity of between 1 million and 3 million centipoise[.] and wherein said lacquer composition is processed into perforated propellant grains.